100 Mbps PoE Switch

Quick Start Guide

UD29448B-A

Preface

Applicable Models

This manual is applicable to 0300P series 100 Mbps PoE switches.

Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
Note	Provides additional information to emphasize or supplement important points of the main text.
Caution	Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
Danger	Indicates a hazard with a high level of risk, which if not avoided, will result in death or serious injury.

1 Introduction

1.1 Product Introduction

0300P series 100 Mbps PoE switches are layer 2 PoE switches, providing advanced PoE power supply technology on the basis of high-performance access. The devices support up to 300 m long-range transmission (EXTEND mode), and feature high-priority ports to ensure preferential network transmission in key service areas of users. The devices also support port isolation to guarantee information security, and can enable PoE watchdog to automatically detect and restart ports. The devices are reliable, easy to install and maintain, and equipped with rapid switching functions. With multiple access ports, the devices are suitable for small-scale LAN device access.

1.2 Packing List

Accessory	Quantity
Switch	× 1
Power Cord	× 1
L-Shaped Bracket	× 2
Screw	Without Indicator Panel × 4
	With Indicator Panel × 6
Quick Start Guide	× 1
Multilingual Information of Network Switch	× 1

1.3 Appearance

Device appearances vary with different models. The actual device prevails.

Front Panel

0318P series switches (without indicator panels) feature sixteen 10/100 Mbps PoE RJ45 ports, one gigabit RJ45 port, and one gigabit combo port.

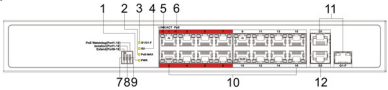

Figure 1-1 0318P Series (Without Indicator Panels)

0318P series switches (with indicator panels) feature sixteen 10/100 Mbps PoE RJ45 ports and two gigabit combo ports.

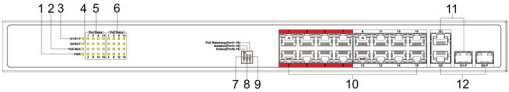

Figure 1-2 0318P Series (with Indicator Panels）

0326P series switches (without indicator panels) feature twenty-four 10/100 Mbps PoE RJ45 ports, one gigabit RJ45 port, and one gigabit combo port.

0326P series switches (with indicator panels) feature twenty-four 10/100 Mbps PoE RJ45 ports and two gigabit combo ports.

Note

- The front panels of 0326P series switches (without indicator panels) are similar to those of 0318P series switches (without indicator panels). The only difference is that 0326P series switches feature twenty-four 10/100 Mbps PoE RJ45 ports.
- The front panels of 0326P series switches (with indicator panels) are similar to those of 0318P series switches (with indicator panels). The only difference is that 0326P series switches feature twenty-four 10/100 Mbps PoE RJ45 ports, twenty-four port status indicators, and twenty-four PoE status indicators.

Table 1-1 Port/Indicator Description of Front Panel

No.	Indicator/Port	Description
1	PWR Indicator	● Solid on: The switch is powered on normally. ● Unlit: No power supply is connected or power supply is abnormal.
2	PoE-MAX Indicator	● Solid on: The output power of the switch is about to reach or has reached the upper limit. The power supply may be abnormal if more devices are connected. ● Unlit: The switch does not supply power to a powered device (PD), or the switch supplies power to a PD normally and the output power of the switch does not reach the upper limit. Note The PoE-MAX indicator will be unlit in five seconds after the output power of the switch reaches the upper limit.
3	Gigabit RJ45 Port Indicator (when gigabit RJ45 port G1 is connected)	● Solid on: The port is connected. ● Flashing: The port is transmitting data. ● Unlit: The port is disconnected or connection is abnormal.
	Gigabit SFP Fiber Optical Port Indicator (when gigabit SFP fiber optical port G1-F is connected)	● Solid on: The gigabit SFP fiber optical port is connected. ● Flashing: The gigabit SFP fiber optical port is transmitting data. ● Unlit: The gigabit SFP fiber optical port is disconnected or connection is abnormal.

4	Gigabit RJ45 Port Indicator (when the devices feature only one combo port G1/G1-F or when gigabit RJ45 port G2 is connected)	• Solid on: The port is connected. • Flashing: The port is transmitting data. • Unlit: The port is disconnected or connection is abnormal.
	Gigabit SFP Fiber Optical Port Indicator (when gigabit SFP fiber optical port G2-F is connected)	• Solid on: The gigabit SFP fiber optical port is connected. • Flashing: The gigabit SFP fiber optical port is transmitting data. • Unlit: The gigabit SFP fiber optical port is disconnected or connection is abnormal.
5	LINK/ACT Indicator (for switches without indicator panels) 10/100 Mbps RJ45 Port Indicator (for switches with indicator panels)	• Solid on: The port is connected. • Flashing: The port is transmitting data. • Unlit: The port is disconnected or connection is abnormal.
6	PoE Indicator (for switches without indicator panels) PoE Status Indicator of 10/100 Mbps RJ45 Port (for switches with indicator panels)	• Solid on: The switch supplies power to a PD normally. • Unlit: The switch is disconnected from a PD or power supply is abnormal.
7	EXTEND DIP Switch	Enable or disable long-range transmission (EXTEND mode). • When the DIP switch is set to “ON”, the corresponding ports support up to 300 m network transmission with a port rate of 10 Mbps. • When the DIP switch is set to “OFF”, the corresponding ports support up to 100 m network transmission with a port rate of 100 Mbps.
8	Isolation DIP Switch	Enable or disable port isolation. • When the DIP switch is set to “ON”, port isolation is enabled. Ports in the same isolation group cannot communicate with each other. Data transmission via each port is isolated to enhance network security.

		• When the DIP switch is switched to “OFF”, port isolation is disabled. Ports can communicate with each other.
9	PoE Watchdog DIP Switch	Enable or disable PoE watchdog. • When the DIP switch is set to “ON”, PoE watchdog is enabled to automatically detect device connection statuses of corresponding ports and restart ports in case of communication failures. • When the DIP switch is set to “OFF”, PoE watchdog is disabled. Corresponding ports are no longer automatically detected and restarted in case of communication failures.
10	10/100 Mbps PoE RJ45 Port	Used for connection to a PD via a network cable.
11	Gigabit Combo Port (G1/G1-F)	When connected to a network cable, the combo port is a RJ45 port. When plugged into with an optical module and connected to an optical fiber, the combo port functions as a fiber optical port. Note • A combo port consists of a RJ45 port and a fiber optical port. You can use either the RJ45 port or the fiber optical port of a combo port, but cannot use them at the same time. For example, if RJ45 port G1 is connected, fiber optical port G1-F is unavailable. • When connected to both a network cable and an optical fiber, the combo port works as a fiber optical port.
12	Gigabit Combo Port (G2/G2-F)	
	Gigabit RJ45 Port (G2) (when the devices feature only one combo port G1/G1-F)	Used for connection to another device via a network cable.

Note

- Ports 1 to 8 of 0318P and 0326P series switches are high-priority ports used to prioritize network transmission in key service areas.

- Ports supporting long-range transmission vary with device models. Ports 9 to 16 of 0318P series switches and ports 17 to 24 of 0326P series switches support up to 300 m network transmission.
- Ports supporting port isolation vary with device models. Ports 1 to 16 of 0318P series switches and ports 1 to 24 of 0326P series switches support port isolation.
- Ports supporting PoE watchdog vary with device models. Ports 1 to 16 of 0318P series switches and ports 1 to 24 of 0326P series switches support PoE watchdog.

Rear Panel

Figure 1-3 0318P/0326P Series (Without Indicator Panels)

Figure 1-4 0318P/0326P Series (with Indicator Panels)

Table 1-2 Port/Indicator Description of Rear Panel

No.	Indicator/Port	Description
1	Grounding Terminal	Used for connecting to the grounding cable to protect the switch from lightning.
2	Power Supply	Use the attached power cord to connect the switch to a socket.

2 Installation

Please select the appropriate installation method according to the actual needs.

Note

If screws are not provided in the package, prepare them yourself.

Before You Start

- Ensure that the desktop, wall, rack, or rail is stable and firm enough.
- Keep the room well-ventilated. Leave at least 10 cm of heat dissipation space around the device.
- Keep at least 1.5 cm vertical distance between two adjacent devices for rack-mounted installation.

2.1 Desktop Installation

Place the device on the desk.

2.2 Wall-Mounted Installation

Steps

1. Check the distance between the two hanging holes on the rear cover of the device.
2. Insert two M4 screws into the wall.

Note

- Ensure that the distance between the two screws equals to the distance between the two hanging holes.
- Set aside at least 4 mm of the screw bodies outside the wall.

3. Align the hanging holes with the screws, and hang the device on the screws.

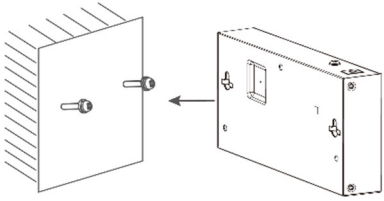

Figure 2-1 Wall-Mounted Installation

2.3 Rack-Mounted Installation

Steps

1. Check the grounding and stability of the rack.
2. Use screws to fix the two L-shaped brackets to both sides of the device.

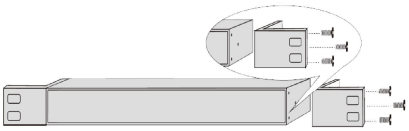

Figure 2-2 Fix L-Shaped Brackets

3. Place your device against the rack, and fix the brackets to the rack with screws to stably install your device.

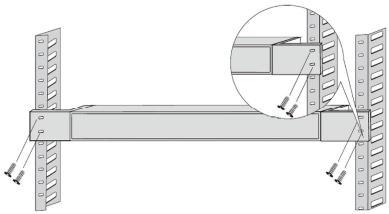

Figure 2-3 Fix Brackets to Rack

3 Grounding

3.1 Connect Grounding Cable

Grounding is used to quickly release overvoltage and overcurrent induced by lightening on the device, and to protect personal safety. Select an appropriate grounding method according to the installation conditions.

Note

The grounding terminal is on the rear panel or side panel of the device. The actual device prevails.

3.1.1 With Grounding Bar

If a grounding bar is available at the installation site, follow the steps below.

Steps

1. Connect one end of the grounding cable to the binding post on the grounding bar.
2. Connect the other end of the grounding cable to the grounding terminal of the device and tighten the screw.

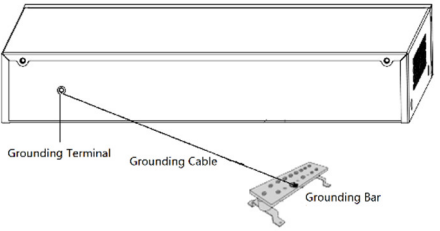

Figure 3-1 Grounding with Grounding Bar

3.1.2 Without Grounding Bar

If there is no grounding bar but the earth is nearby and the grounding body is allowed to be buried, follow the steps below.

Steps

1. Bury an angle steel or steel pipe (≥ 0.5 m) into the earth.
2. Weld one end of the grounding cable to the angle steel or steel pipe and embalm the welding point via electroplating or coating.
3. Connect the other end of the grounding cable to the grounding terminal.

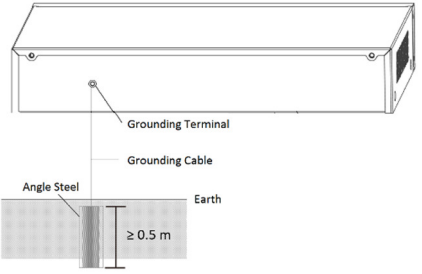

Figure 3-2 Grounding with Angle Steel

3.2 Connect RJ45 Port

Use a network cable to connect the device to the RJ45 port of a peer device such as network camera, NVR, switch, etc.

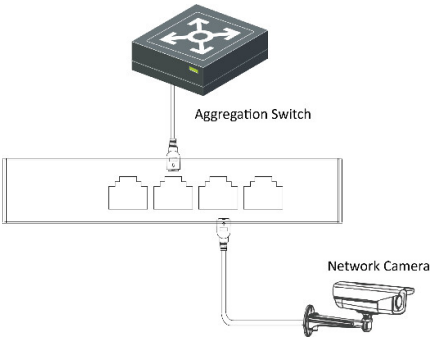

Figure 3-3 RJ45 Port Connection

3.3 Connect SFP Optical Module

Connecting an SFP optical module is supported when the device has a fiber optical port or a combo port.

Steps

Caution

- Single-Mode optical module needs to be paired for use.
- Do not bend an optical fiber (curvature radius ≥ 10 cm) overly.
- Do not look directly at an optical fiber connector because the laser generated is harmful to eyes.

1. Connect the two paired SFP optical modules with an optical fiber.
2. Hold the SFP optical module from one side, and smoothly plug it into the device along the SFP port slot until the optical module and the device are closely attached.
3. After powering on the device, check the status of the optical port indicator.
   - If the indicator is lit, the link is connected.
   - If the indicator is unlit, the link is disconnected.
4. Check the line, and make sure that the peer device has been enabled.

4 Device Powering-On

Please use the attached power adapter or power cord to power on the device.

Before powering on your device, make sure that:

- The operating power supply is compliant with rated input standard.
- Port cables and grounding cables are correctly connected.
- If there is outdoor cabling, connect a lightning rod and a lightening arrester to the cable.

Caution

Power supply lines and strong current wires cannot be wired together, otherwise PDs or switch ports will be burnt.